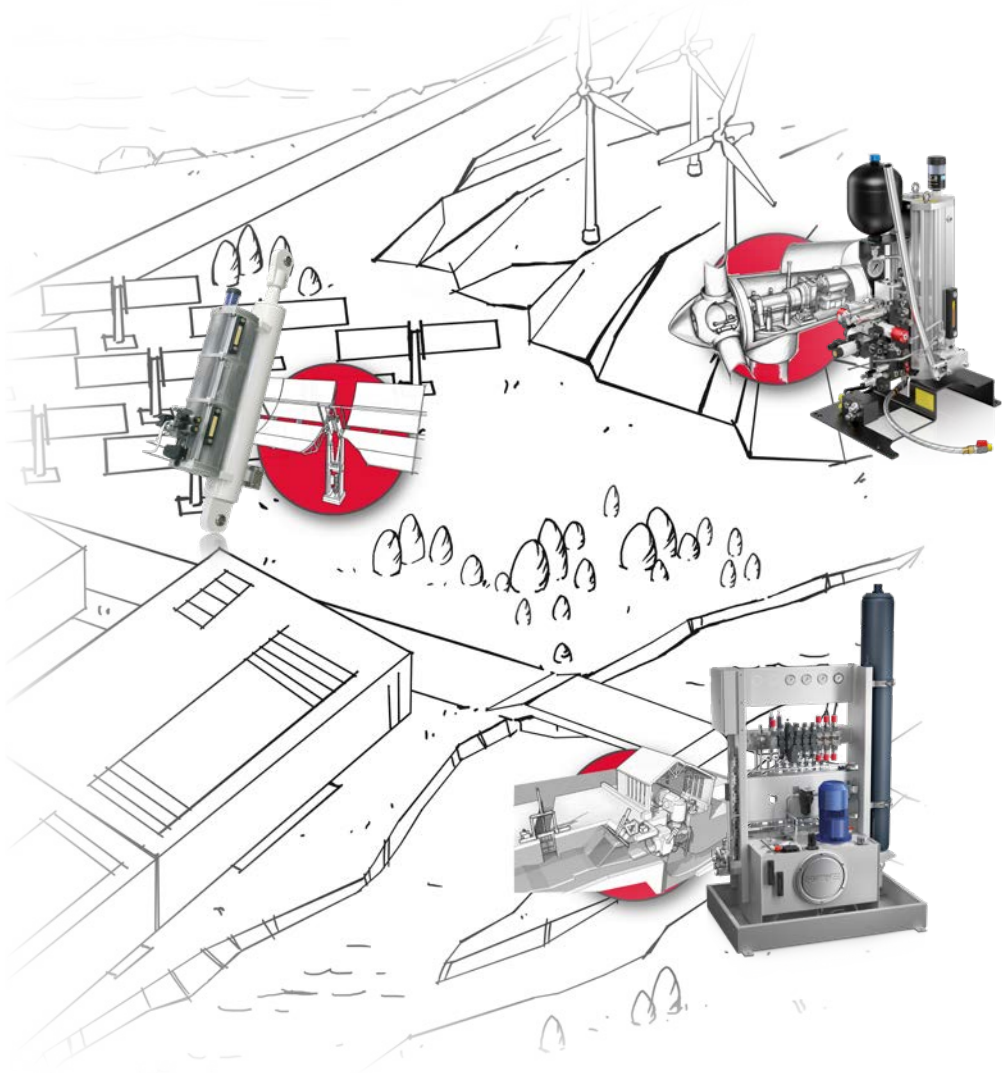


# Solutions for renewable energy plants





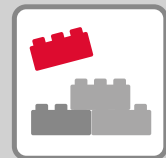
CO<sub>2</sub>  
Footprint



Predictive  
Maintenance



Efficiency



Modular  
Design

# Solutions for powering the future

As a global manufacturer of hydraulics we love to use renewable energy within our factories worldwide, as well as support our customers to create efficient and long-live solutions for renewable energy plants. With our modular design we built competitive and customized solutions for wind power turbines, solar plants and small hydro power plants.



# Decentral or central control units with hydraulic power packs



## FXU

### Features and advantages

- For centralised control of all functions
- Free choice of usable volume
- Cooler or fan directly mountable

### Technical data

- $p_{max}$ : 700 bar / 10150 PSI
- $Q_{max}$ : 90 lpm / 24 gpm



## CPU

### Features and advantages

- For decentralised control
- Directly mounted hand pump
- Good heat dissipation

### Technical data

- $p_{max}$ : 350 bar / 5070 PSI
- $Q_{max}$ : 12 lpm / 3 gpm



## INKA

### Features and advantages

- For decentralised control
- With integrated condition monitoring
- Free monitoring software

### Technical data

- $p_{max}$ : 700 bar / 10150 PSI
- $Q_{max}$ : 2,5 lpm / 0,7 gpm

Hydraulic power units supply all control functions with the necessary pressure fluid. Out of the modular design system you can choose the suitable size and pressure range. The units are optimized for a long service life and different environmental requirements.

# Valve technology and monitoring systems

The small but mighty valves are the reliable intelligence in the hydraulic system. Designed as seated valves they provide zero leakage closed position over a long period. You can easily integrate them in customized blocks or attach them directly to the power unit. Suitable condition monitoring solutions are available.



## Pitch control block

### Features and advantages

- Based on spool or seated valve technology
- Innovative solutions
- Easily adaptable

### Technical data

- $p_{max}$ : 350 bar / 5070 PSI
- $Q_{max}$ : 160 lpm / 42 gpm

## Directional valves in modular design

### Features and advantages

- Spool valves in CETOP
- Seated valves with zero leakage in many hydraulic symbols

### Technical data

- $p_{max}$ : 400 bar / 5800 PSI
- $Q_{max}$ : 25 lpm / 7 gpm

## Cloud solution for monitoring

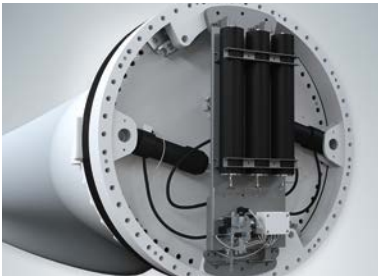
### Features and advantages

- Condition monitoring
- Standard interfaces
- Complete inhouse solution

### Our offer

- Available 24/7
- Free of charge

# Customized system solutions



## Pitch module

### Features and advantages

- Plug&Play solution for pitch control
- Easy handling
- Easy maintenance

### Our offer

- Customer and plant specific solution



## Plug&Run solutions

### Features and advantages

- Easy set-up
- Less installation space
- Ideal for decentral control

### Technical data

- $p_{max}$ : 400 bar / 5800 PSI
- $Q_{max}$ : 20 lpm / 5 gpm



## Hydraulic power pack

### Features and advantages

- High quality solution
- All from a single source
- Modular design

### Technical data

- $p_{max}$ : 350 bar / 5070 PSI
- $Q_{max}$ : 60 lpm / 16 gpm

With the experience of over 30 years in the business of renewable energy HAWE has built specific solutions that meet special requirements. Whether the installation space should be small or the assembly should be easy or the control unit should be flexible adaptable.

# Service support and spare parts

Within HAWE Group we have experts not only in the design of a reliable control solutions. In many countries we are also able to support you with experienced and trained staff for maintenance and lifetime extension for renewable energy plants. With our large stock on spare parts we can offer short term support to reduce downtime.



## Spare parts

### Features and advantages

- Stock lists 3,000+ items, both standard, customized and critical components
- Hydraulic and electronic know-how of service specialists

## Oil conditioning unit

### Features and advantages

- Efficient continuous offline filtration of the hydraulic oil
- Efficient continuous cooling of the hydraulic oil, e.g controlled by independent thermostat

## Life time extension

### Features and advantages

- Customized retrofit solutions
- Components to upgrade your solutions
- Practice-oriented trainings in hydraulics and electronics are offered

Follow us on:



More details about the products  
can be found at the website:



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